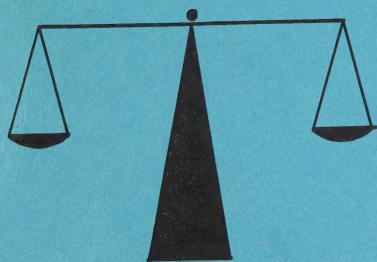


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Government
Publications

CANADA WEIGHTS MEASURES AND CONVERSION FACTORS FOR AGRICULTURAL PRODUCTS



**Marketing Service - Economics Division
CANADA DEPARTMENT OF AGRICULTURE**

OTTAWA, JULY, 1954.




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PREFACE

This bulletin represents an attempt to gather together from various sources weights, measures and conversion factors commonly required in calculations pertaining to agricultural products. It has been prepared in co-operation with the Agriculture Division, Dominion Bureau of Statistics, the commodity divisions of the Department of Agriculture Marketing Service, and the trade.

The sources of information vary and many of the figures may be revised as further data are obtained. In some cases the figures have been revised from those formerly used in government publications. Unless otherwise noted, the data are national averages and may therefore not be valid for use regionally. Figures have been rounded in most cases. In some instances weights and percentages are fixed by law. Each of these is indicated by the addition of the word "statutory" after the item.

As this bulletin should be regarded as provisional, comments will be of assistance in preparing any subsequent edition. Letters regarding the scope and content of this publication should be sent to the Chief, Economics Division, Department of Agriculture, Ottawa, Ontario.



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GRAINS AND GRAIN PRODUCTS

WHEAT

Wheat - bushel weight (statutory)	60 lb.
- quantity used per barrel of flour	4.5 bushels
- flour extraction rate	72%
Flour - barrel weight	196 lb.
- yield per bushel of wheat	43.2 lb.

OATS

Oats - bushel weight (statutory)	34 lb.
- quantity used per barrel of oatmeal	10.8 bushels
- quantity used per barrel of rolled oats	9.9 bushels
- oatmeal and rolled oats extraction rate	53.5%
Oatmeal - barrel weight	196 lb.
- yield per bushel of oats	18.2 lb.
Rolled oats - barrel weight	180 lb.
- yield per bushel of oats	18.2 lb.
Oat scalpings - bushel weight	34 lb.

BARLEY

Barley - bushel weight (statutory)	48 lb.
- quantity used per barrel of pot and pearl meal	8.4 bushels
- quantity used per bushel of malt	1 bushel
- pot and pearl meal extraction rate	48.5%

BARLEY - continued

Pot and pearl meal - barrel weight	196 lb.
- yield per bushel of barley	23.3 lb.
Malt - bushel weight (statutory)	36 lb.
- yield per bushel of barley	1 bushel

RYE

Rye - bushel weight (statutory)	56 lb.
- quantity used per barrel of meal and flour	4.8 bushels
- meal and flour extraction rate	72.7%
Meal and flour - barrel weight	196 lb.
- yield per bushel of rye	40.7 lb.

CORN

Corn - bushel weight (statutory)	56 lb.
- quantity used per barrel of meal and cracked corn	7.9 bushels
- meal and flour extraction rate	44.5%
Meal and cracked corn - barrel weight	196 lb.
- yield per bushel of corn	24.9 lb.

BUCKWHEAT

Buckwheat - bushel weight (statutory)	48 lb.
- quantity used per barrel of flour	6.5 bushels
- flour extraction rate	62.9%

- continued /3.

BUCKWHEAT - continued

Flour - barrel weight	196 lb.
- yield per bushel of buckwheat	30.2 lb.

MIXED GRAIN

- bushel weight (statutory)	50 lb.
- bushel weight (non-commercial weight)	40 lb.

DRIED BEANS

- bushel weight (statutory)	60 lb.
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DRIED PEAS

Whole peas - bushel weight (statutory)	60 lb.
Split peas - yield per bushel of whole peas	47.5 lb.

OILSEEDS AND OILSEED PRODUCTS

FLAXSEED

Flaxseed	- bushel weight (statutory)	56 lb.
	- crude linseed oil extraction rate	34.5%
	- linseed meal extraction rate	60.7%
Linseed oil	- yield of crude oil per bushel of flaxseed	19.3 lb.
	- weight per gallon of crude oil	9.3 lb.
Linseed meal	- yield per bushel of flaxseed	34 lb.

SOYBEANS

Soybeans	- bushel weight (statutory)	60 lb.
	- crude oil extraction rate	16.8 %
	- meal extraction rate	78.8 %
Soybean oil	- yield of crude oil per bushel of soybeans	10.1 lb.
	- weight per gallon of crude oil	9.2 lb.
Soybean meal	- yield per bushel of soybeans	47.3 lb.

RAPESEED

Rapeseed	- oil extraction rate	34 %
	- meal extraction rate	58 %
Rapeseed oil	- yield of oil per lb. of rapeseed	0.34 lb.
	- weight per gallon of oil	9.1 lb.
Rapeseed meal	- yield per lb. of rapeseed	0.58 lb.

SUNFLOWER SEED

Sunflower seed - oil extraction rate	28 %
- meal extraction rate	33 %
Sunflower seed oil - yield of oil per lb. of sunflower seed	0.28 lb.
- weight per gallon of oil	9.2 lb.
Sunflower seed meal- yield per lb. of sunflower seed	0.33 lb.

MUSTARD SEED

Mustard seed - oil extraction rate	23 %
- meal extraction rate	70 %

COPRA

Copra - oil extraction rate	64 %
- meal extraction rate	33 %

LIVESTOCK AND LIVESTOCK PRODUCTS

CATTLE

100 lb. live	53 lb. warm carcass <u>a/</u>
100 lb. warm carcass	189 lb. live
100 lb. warm carcass	97 lb. chilled carcass
100 lb. chilled carcass	103 lb. warm carcass
100 lb. chilled carcass	72 lb. boneless beef
100 lb. boneless beef	139 lb. chilled carcass
100 lb. live	51 lb. chilled carcass
100 lb. live	37 lb. boneless beef
100 lb. chilled carcass	195 lb. live
100 lb. boneless	270 lb. live
100 lb. pickled beef	118 lb. chilled carcass
100 lb. chilled carcass	85 lb. pickled beef
100 lb. canned corned beef	198 lb. chilled carcass
100 lb. chilled carcass	51 lb. canned corn beef

Warm dressed weight
average per animal slaughtered
under federal inspection

1949-53	496.2 lb.
1953	506.6 lb.

a/ Head, feet and hide off, kidney out.

Representative Retail Cuts of Beef as a
Percentage of Chilled Carcass Weight

	: With : bone - in : cuts	: With : boneless : cuts
	- per cent -	
Hind shank	3 1/4	3 1/4
Round steak	12	12
Rump roast	5	5
Sirloin tip	4	
Sirloin tip, cubed		3 1/4
Sirloin steak or roast	7	7
Porterhouse steak or roast	3	3
T-bone steak or roast	2	2
Wing steak or roast	3	3
Trimmed flank	2	2
Flank steak	1/2	1/2
Rib roast - 5 ribs	6	
Rib roast - 6th and 7th ribs	3	
Rolled rib roast, 7 ribs		7
Plate brisket	7	
Rolled plate		4 1/2
Brisket point	4	
Rolled brisket		2
Shoulder roast	3 1/2	3 1/2
Short rib (cross rib) roast	7	7
Blade roast	7 1/2	
Blade roast - blade out		7
Boneless chuck roast	3	3
Boneless neck	2	2
Fore shank	3	3
Waste (bones, suet, etc.)	12 1/4	20
Chilled carcass	100	100

Average Weight of Edible Offal per Carcass

	lb.
Liver	10.00
Heart	3.50
Kidney	1.75
Tongue	3.50
TOTAL	18.75

CALVES

100 lb. live
100 lb. warm carcass, skin on
100 lb. warm carcass, skin on
100 lb. warm carcass, skin off
100 lb. warm carcass, skin off
100 lb. chilled carcass
100 lb. chilled carcass
100 lb. boneless veal
100 lb. live
100 lb. live
100 lb. live
100 lb. warm carcass, skin off
100 lb. chilled carcass
100 lb. boneless veal
100 lb. warm carcass, skin on
100 lb. chilled carcass

61 lb. warm carcass, ^{a/} skin on
164 lb. live
89 lb. warm carcass, skin off
113 lb. warm carcass, skin on
96 lb. chilled carcass
104 lb. warm carcass, skin off
69 lb. boneless veal
145 lb. chilled carcass
54 lb. warm carcass, skin off
52 lb. chilled carcass
36 lb. boneless veal
185 lb. live
193 lb. live
280 lb. live
85 lb. chilled carcass
118 lb. warm carcass, skin on

Warm dressed weight
average per animal slaughtered
under federal inspection

1949-53	121.4 lb.
1953	124.6 lb.

a/ Head and feet off, kidney in.

Representative Retail Cuts of Veal as a
Percentage of Chilled, Skinless,
Weight

	per cent
Leg roast	9
Cutlets	7
Rump	8
Sirloin	6
Loin chops	8
Rib chops	7
Shoulder	22
Breast	10
Boneless stewing meat	5
Waste - (bones, fat, etc.)	18
Chilled, skinless carcass	100

Average Weight of Edible Offal
per Carcass

	lb.
Liver	2.50
Heart	.75
Tongue	.75
TOTAL	4.00

HOGS

100 lb. live	75 lb. warm carcass <u>a</u> /
100 lb. warm carcass	133 lb. live
100 lb. warm carcass	97 lb. chilled carcass larding fat on
100 lb. chilled carcass larding fat on	103 lb. warm carcass
100 lb. chilled carcass larding fat on	83 lb. chilled carcass larding fat off
100 lb. chilled carcass, larding fat off	120 lb. chilled carcass, larding fat on
100 lb. chilled carcass, larding fat off	61 lb. boneless pork, 80 per cent lean
100 lb. boneless pork, 80 per cent lean	164 lb. chilled carcass larding fat off
100 lb. live	73 lb. chilled carcass larding fat on
100 lb. live	60 lb. chilled carcass larding fat off
100 lb. live	37 lb. boneless pork, 80 per cent lean
100 lb. chilled carcass larding fat on	137 lb. live
100 lb. chilled carcass larding fat off	166 lb. live
100 lb. boneless pork 80 per cent lean	272 lb. live
100 lb. warm carcass	80 lb. chilled carcass larding fat off
100 lb. chilled carcass larding fat off	124 lb. warm carcass
100 lb. bacon, ham, shoulders and sides, cured or smoked	110 lb. chilled carcass

a/ Head, feet and skin on, kidney in.

- continued /11.

100 lb. chilled carcass	91 lb. bacon, ham, shoulders and sides, cured or smoked
100 lb. pork, pickled in barrels (exports)	93 lb. chilled carcass
100 lb. chilled carcass	108 lb. pork, pickled in barrels (exports)
100 lb. pork, barrelled in brine (imports)	100 lb. chilled carcass
100 lb. pork, dry salted	100 lb. chilled carcass
100 lb. canned hams	137 lb. chilled carcass
100 lb. chilled carcass	73 lb. canned hams
100 lb. canned pork luncheon meat	118 lb. chilled carcass
100 lb. chilled carcass	85 lb. canned pork luncheon meat

Warm dressed weight
average per animal slaughtered
under federal inspection

1949-53	162.5 lb.
1953	161.5 lb.

Representative Retail Cuts of Pork as a
Percentage of Chilled Carcass Weight,
Fat-in

	per cent
Hams	21
Trimmed loins	15½
Bellies	13
N.Y. Shoulders	15½
Head	6
Edible trimmings and scrap	2
Tongue and kidney	1
Spare-ribs and hocks	4
Fats <u>a/</u>	17
Waste (feet, bones, etc.)	5
Chilled carcass, fat-in	100

Average Weight of Edible Offal
per Carcass

	lb.
Liver	3.0
Heart	.5
Kidney	left in carcass
Tongue	" " "
TOTAL	3.5

Average Yield of Lard

100 lb. chilled carcass	17 lb. larding fat
100 lb. larding fat	558 lb. chilled carcass
100 lb. chilled carcass	12¾ lb. lard
100 lb. lard	784 lb. chilled carcass
100 lb. larding fat	75 lb. lard
100 lb. lard	133 lb. larding fat

a/ Includes neck fat, back fat, shoulder fat, rough fat and leaf lard.

SHEEP AND LAMBS

100 lb. live	47 lb. warm carcass <u>a/</u>
100 lb. warm carcass	213 lb. live
100 lb. warm carcass	97 lb. chilled carcass
100 lb. chilled carcass	103 lb. warm carcass
100 lb. chilled carcass	70 lb. boneless lamb
100 lb. boneless lamb	143 lb. chilled carcass
100 lb. live weight	46 lb. chilled carcass, skin off
100 lb. live weight	32 lb. boneless lamb
100 lb. chilled carcass, skin off	219 lb. live weight
100 lb. boneless lamb	313 lb. live weight

Warm dressed weight
average per animal slaughtered
under federal inspection

1949-53	45.1 lb.
1953	44.0 lb.

a/ Head, feet and skin off, kidney in,

Representative Retail Cuts of Lamb as a
Percentage of Chilled Carcass
Weight

	per cent
Leg	32
Loin chops	11
Rib chops	12
Shoulder	25
Stewing cuts <u>a/</u>	15
Waste (bones, fat, etc.)	5
Chilled carcass	100

Average Weight of Edible Offal
per Carcass

	lb.
Liver	1.0
Heart	.3
Kidney	left in carcass
Tongue	.2
TOTAL	1.5

Wool

Average fleece weight	7 lb.
1 lb. scoured	1.7 lb. greasy
1 lb. greasy	.6 lb. scoured
1 lb. pulled	1.5 lb. greasy
1 lb. greasy	.7 lb. pulled

a/ Includes neck, flank, breast and foreshank.

DAIRY PRODUCTS

WHOLE MILK

milk fat content	3.5% by weight
nonfat solids content	8.5% by weight
weight of 1 gallon	10.3 lb.
volume of 100 lb.	38.8 qts.

SKIMMED MILK

quantity from 100 lb. whole milk	90 lb.
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MILK FAT

3.5% milk required for 1 lb.	28.6 lb.
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BUTTER

milk fat content	82% by weight
milk required to make 1 lb.	23.4 lb.
quantity from 100 lb. milk	4.3 lb.
standard pack	56 lb. box

CHEDDAR CHEESE (and other factory
cheese made from whole milk)

milk fat content	38% by weight
milk required to make 1 lb.	11 lb.
quantity from 100 lb. milk	9 lb.
standard pack	90 lb. (average) box

CREAM CHEESE

milk fat content	36% by weight
milk required to make 1 lb.	10.3 lb.
quantity from 100 lb. milk	9.7 lb.

PROCESS CHEESE

cheddar cheese required to make 1 lb.	0.7 lb.
quantity from 1 lb. cheddar cheese	1.4 lb.

ICE CREAM (Subject to periodic change)

milk fat content	0.6 lb. per gallon
milk required to make 1 gallon	17 lb.
quantity from 100 lb. milk	5.9 gal.

CONDENSED WHOLE MILK

milk fat content	8% by weight
milk required to make 1 lb.	2.3 lb.
quantity from 100 lb. milk	43.5 lb.
standard pack	case of 48 - 15 oz. tins

EVAPORATED WHOLE MILK

milk fat content	8% by weight
milk required to make 1 lb.	2.3 lb.
quantity from 100 lb. milk	43.5 lb.
standard pack	case of 48 - 16 oz. tins

DRY WHOLE MILK

milk fat content	28% by weight
milk required to make 1 lb.	8 lb.
quantity from 100 lb. milk	12.5 lb.

DRY CREAM

milk fat content	73.5% by weight
milk required to make 1 lb.	21 lb.
quantity from 100 lb. milk	4.8 lb.

MALTED MILK

milk fat content	8.7% by weight
milk required to make 1 lb.	2.5 lb.
quantity from 100 lb. milk	40 lb.

CONDENSED AND EVAPORATED SKIMMED MILK

skimmed milk required to make 1 lb.	3 lb.
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DRY SKIMMED MILK

skimmed milk required to make 1 lb.	11 lb.
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CASEIN

skimmed milk required to make 1 lb.	33 lb.
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COTTAGE CHEESE

skimmed milk required to make 1 lb.	7 lb.
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CONDENSED BUTTERMILK

buttermilk required to make 1 lb.	3 lb.
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DRY BUTTERMILK

buttermilk required to make 1 lb.	12 lb.
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LACTOSE (Sugar of milk)

whey required to make 1 lb.	22 lb.
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DRY WHEY

whey required to make 1 lb.	20 lb.
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POULTRY AND EGGS

EGGS

Fresh - basis statutory A Large Minimum

weight of 1 egg	2 oz.
no. of eggs per pound	2/3 doz.
weight of 1 dozen eggs	1.5 lb.
weight of a case (30 dozen)	45 lb.
carlot	640 cases

Frozen

quantity of fresh eggs in 1 pound	.78 doz.
weight from 1 dozen fresh eggs	1.3 lb.

Dried whole eggs

quantity of fresh eggs in 1 pound	2.9 doz.
weight from 1 dozen fresh eggs	.34 lb.

CHICKENS

shrinkage, live to dressed	12 per cent
shrinkage, dressed to eviscerated	26 per cent
shrinkage, live to eviscerated	35 per cent
average live weight	4.5 lb.
carlot	25,000 lb.

TURKEYS

shrinkage, live to dressed	11 per cent
shrinkage, dressed to eviscerated	26 per cent
shrinkage, live to eviscerated	34 per cent
average live weight	16 lb.
carlot	25,000 lb.

FRUITS

TREE FRUITS

Weight of container excluded

Apples

barrel	135 lb.
box	42 lb.
bushel	45 lb.
crate	45 lb.
6 qt. open	7 lb.
11 qt. open	14 lb.
carload	215 barrels 525 bushel hampers 850 half-bushel hampers 800 boxes
1 lb. canned	1.70 lb. fresh
1 lb. canned apple sauce	1.40 lb. fresh
1 lb. dried (exports)	10 lb. fresh
1 lb. dried (imports)	8 lb. fresh
1 lb. apple juice	1.66 lb. fresh
1 lb. apple juice concentrated	11.62 lb. fresh
transparent bags	3 or 5 lb. (Ontario)
Handi-Pak (B.C.)	20 lb.

Apricots

4 basket crate	20 lb.
lug	14.6 lb.
bushel	50 lb.
carload	1,320 peach boxes.

- continued /20.

Weight of container excluded

Apricots - continued

1 lb. canned	.84 lb. fresh
1 lb. dried	6 lb. fresh

Cherries

6 qt. flat	8 lb.
6 qt. leno	10 lb.
11 qt. flat	16 lb.
4 basket crate	20 lb.
display lug	15 lb.
lug	25 lb.
bushel	50 lb.
carload	800 lugs 1,400 display lugs 1,040 4-basket crates 2,400 6-qt. flats
1 lb. canned pitted	1.10 lb. fresh
1 lb. canned unpitted	.72 lb. fresh

Crabapples

box	36 lb.
11 qt.	14 lb.
carload	895 boxes

Peaches

6 qt. leno	10 lb.
11 qt. leno	17 lb.
peach box	20 lb.
4 basket crate	20 lb.
bushel	50 lb.

Peaches - continued

carload

Weight of container excluded

1,450 peach boxes
860 half-bushel hampers
2,100 6-qt. lenos

1 lb. canned

1.02 lb. fresh

1 lb. frozen

1.12 lb. fresh

Pears

6 qt. flat

8 lb.

6 qt. leno

11 lb.

11 qt. flat

15 lb.

11 qt. leno

18 lb.

box

42 lb.

bushel

50 lb.

carload

800 boxes
850 half-bushel hampers
2,400 6-qt. flats
2,100 6-qt. lenos
1,400 11-qt. flats

1 lb. canned

1.07 lb. fresh

Plums and Prunes

6 qt. flat

8 lb.

6 qt. leno

11 lb.

11 qt. flat

16 lb.

4 basket crate

20 lb.

lug

15 lb.

suit case

17 lb.

bushel

50 lb.

- continued /22.

Plums and Prunes - continued

carload

Weight of container excluded

1,400 display lugs
1,000 4-basket crates
1,200 suit cases
2,400 6-qt. flats
2,100 6-qt. lenos

1 lb. canned

.63 lb. fresh

SMALL FRUITS

Blackberries

quart

1 1/4 lb.

Black Currants

6 qt. flat

9 lb.

quart

1 1/4 lb.

Blueberries

6 qt. flat

7 lb.

11 qt. flat

15 lb.

quart

1 1/4 lb.

1 lb. canned

.60 lb. fresh

1 lb. frozen

1.05 lb. fresh

Gooseberries

quart

1 1/4 lb.

6 qt. flat

8 lb.

Grapes

6 qt. flat

7 lb.

6 qt. leno

8 lb.

11 qt. flat

13 lb.

11 qt. open

14 lb.

bushel

50 lb.

carload

2,400 6-qt. flats (east)
3,000 6-qt. flats (west)

Loganberries

Weight of container excluded

quart

1 1/4 lb.

1 lb. canned

.63 lb. fresh

Raspberries

quart

1 1/4 lb.

carload

800 24-pt. crates (west)

400 27-qt. crates (east)

1 lb. canned

.63 lb. fresh

1 lb. frozen

1.05 lb. fresh

Red Currants

6 qt. flat

7 lb.

quart

1 lb.

Strawberries

quart

1 1/4 lb.

carload

800 24-pt. crates (west)

400 27-qt. crates (east)

1 lb. canned

.63 lb. fresh

1 lb. frozen

.85 lb. fresh with stems

.81 lb. hulled

OTHER FRUITS

Weight of container excluded

Cantaloupes

20 qt. open basket	24 lb.
standard or jumbo crate	70 lb.
flat	23 lb.
carload	335 crates 900 20-qt. open baskets

Fruit Cocktail

1 lb. canned	1.06 lb. fresh
1 case 24/2½ lb. canned	48 lb. fresh

Oranges and Mandarins

2 cu. ft. box	78 lb.
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VEGETABLES

Weight of container excluded

Artichokes

bushel 56 lb.

Asparagus

11 qt. 12 lb.

6 qt. 7 lb.

eastern crate 12 lb.

western crate 15 lb.

carload 1,200 12-lb. crates

1 lb. canned tips 1.42 lb. fresh

1 lb. canned cuttings 1.23 lb. fresh

1 lb. frozen 2.17 lb. fresh

Beans, Snap

11 qt. 11 lb.

6 qt. 8 lb.

bushel 32 lb.

1 lb. canned .63 lb. fresh

1 lb. frozen 1.43 lb. fresh

Beets

dozen bunches 9 lb.

bushel 50 lb.

1 lb. canned 1.33 lb. fresh

bag 24 ounces, 3 lb., 5 lb. or
50 lb. (Ontario)

Weight of container excluded

Cabbage

bushel 8-10 hds.	35 lb.
crate 10-14 hds.	40 lb.
barrel	120 lb.
dozen	40 lb.
head	3½ lb.
carload	325 crates

Carrots

dozen bunches	12 lb.
bushel	50 lb.
barrel	140 lb.
1 lb. canned	.83 lb. fresh
1 lb. frozen	2.70 lb. fresh
bag	20 ounces, 3 lb., 5 lb. or 50 lb. (Ontario)

Cauliflower

bushel)	
crate) 9 - 12 hds.	27 lb.
head	2½ lb.
carload	500 crates
1 lb. frozen	3.33 lb. fresh

Celery

crate 2½-5 doz.	50 lb. (B.C.) 65 lb. (Ont.)
carload	360 crates (Ont.) 510 crates (B.C.) 350 crates (California) 400 crates (Florida)

Corn on the cob

dozen	6 lb.
bushel	35 lb.
1 lb. canned (not on cob)	2.02 lb. fresh
1 lb. frozen	1.14 lb. fresh
1 lb. cut, frozen	3.33 lb. fresh

Weight of container excluded

Cucumbers

11 qt. (2 doz.)	16 lb.
carton (2 doz.)	16 lb.
peach box	20 lb.
lug	25 lb.
bushel	50 lb.
carload	1,430 peach boxes

Eggplant

20 qt. open	14 lb.
peach box	15 lb.
bushel	33 lb.

Lettuce (head)

crate (large) 5 doz.	70 lb.
crate (small) 3 doz.	50 lb.
dozen	15 lb.
flat crate	25 lb.
bushel	18 lb.
carload	300 crates

Weight of container excluded

Lettuce (leaf)

dozen 6 lb.

Onions

dozen bunches 4 lb.

pickling 11 qt. 17 lb.

bushel 50 lb.

carload 300 100-lb. sacks (east)
600 50-lb. crates or sacks
(east)
600 or 800 50-lb. sacks (B.C.)
depending on car ordered

1 lb. dried 11 lb. fresh

bag 2, 3, 5, 10, 25, 50, or 100 lb.
(Ontario)

Parsley

6 qt. (2 doz. bunches) 3 lb.

Parsnips

bushel 45 lb.

bag 24 ounces or 3 lb., 5 lb.
(Ontario)

Peas, Green

6 qt. (in the pod) 6 lb.

11 qt. (in the pod) 10 lb.

bushel (in the pod) 30 lb.

bushel (shelled) 50 lb.

1 lb. dried .70 lb. fresh

1 lb. frozen 2.70 lb. fresh (unshelled)

1 lb. frozen 1.05 lb. fresh (shelled)

Weight of container excluded

Peppers

6 qt.	5 lb.
11 qt.	9 lb.
peach box	8 lb.
bushel	25 lb.

Potatoes

bushel	60 lb. (statutory)
bag	75 lb. unless otherwise specified
barrel	165 lb.
carload	750 bushels 440 75-lb. bags (early) 600 75-lb. bags (main crop) 900 50-lb. sacks (late crop) 360 100-lb. sacks (early) 450 100-lb. sacks (main crop) 4,500 10-lb. bags 3,000 15-lb. bags
1 lb. dried	7.50 lb. fresh
1 lb. flour	7.60 lb. fresh
1 lb. starch	9.00 lb. fresh
1 lb. canned	1.40 lb. fresh

Radishes

dozen bunches	3 lb.
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Rhubarb

dozen bunches	12 lb.
box or crate	42 lb. (statutory)
carton	10 lb.
carload	600 boxes

Weight of container excluded

Spinach

bushel	18 lb.
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Tomatoes

6 qt.	10 lb.
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11 qt.	17 lb.
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4 basket crate	20 lb.
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case	30 lb.
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Quebec box	30 lb.
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pear box (green)	35 lb.
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bushel	60 lb.
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carload	1,000 4-basket crates 720 or 900 boxes (depending on car ordered) 2,400 6-qt. flats 1,400 11-qt. flats
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tube	14 ounces (Ontario)
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1 lb. canned	1.70 lb. fresh
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1 lb. tomato juice	1.11 lb. fresh
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1 lb. tomato pulp and puree	3.15 lb. fresh
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1 lb. tomato paste	5.75 lb. fresh
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Turnips

bushel	50 lb.
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each	3 lb.
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carload	600 50-lb. sacks (early crop) 800 50-lb. sacks (main crop)
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bag	25, 50 or 100 lb.
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SPECIAL PRODUCTS

TOBACCO

Flue-cured

100 lb. green	90 lb. redried
100 lb. green	76 lb. stemmed
100 lb. redried weight	97 lb. standard weight

Burley

100 lb. green	89 lb. redried
100 lb. green	77 lb. stemmed
100 lb. redried weight	97 lb. standard weight

Dark-air

100 lb. green	89 lb. redried
100 lb. green	77 lb. stemmed
100 lb. redried weight	92 lb. standard weight

Dark-fire

100 lb. green	89 lb. redried
100 lb. green	93 lb. stemmed (as used in the manufacture of snuff)
100 lb. redried weight	92 lb. standard weight

Dark-combined

100 lb. green	89 lb. redried
100 lb. green	83 lb. stemmed
100 lb. redried weight	92 lb. standard weight

Cigar-domestic

100 lb. green

96 lb. redried (marked weight)

100 lb. green

64 lb. stemmed

100 lb. redried weight

90 lb. standard weight

Cigar-imported

100 lb. green

70 lb. stemmed

100 lb. redried weight

90 lb. standard weight

Pipe

100 lb. green

96 lb. redried (marked weight)

100 lb. green

70 lb. stemmed

100 lb. redried weight

90 lb. standard weight

SUGAR BEETS

100 lb. sugar beets	16 2/3 lb. raw sugar
100 lb. raw sugar	600 lb. sugar beets
100 lb. raw sugar	93 lb. granulated (white) sugar
100 lb. granulated (white) sugar	107 lb. raw sugar
100 lb. sugar beets	15.6 lb. granulated (white) sugar
100 lb. granulated (white) sugar	640 lb. sugar beets

HONEY

Yield per hive

N.S., N.B., Que., Ont., B.C.	63 lb. per colony
P.E.I.	91 lb. per colony
Man., Sask., Alta.	111 lb. per colony
Canada	79 lb. per colony

MAPLE PRODUCTS

1 gallon syrup	10 lb. maple sugar
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FORAGE AND GRASS SEEDS

	Bushel weight (statutory) lb.
Alfalfa	60
Blue grass	18
Brome grass	14
Clover	60
Crested wheat grass	22
Fescue	22
Millet seed (fox tail type)	48
Millet seed (proso type)	50
Orchard grass	14
Rye grass	20
Slender wheat grass	14
Timothy	48
Vetch	60
Western rye grass	14

EQUIVALENT VALUES OF METRIC UNITS

Area

- 1 hectare = 2.47109 acres
- 1 hectare = 0.00386 square mile
- 1 square kilometre = 0.38610 square mile

- 1 acre = 0.40468 hectare
- 1 square mile = 259 hectares
- 1 square mile = 2.59 square kilometres

Weight

- 1 kilogram = 2.2046 pounds
- 1 quintal = 220.46 pounds
- 1 metric ton = 2204.6 pounds
- 1 metric ton = 22.046 short hundredweights
- 1 metric ton = 19.684 long hundredweights
- 1 metric ton = 1.10232 short tons
- 1 metric ton = 0.98421 long ton

- 1 pound = 0.45359 kilogram
- 1 short hundredweight = 0.045359 metric ton
- 1 long hundredweight = 0.050802 metric ton
- 1 short ton = 0.90718 metric ton
- 1 long ton = 1.01605 metric tons

Liquid Measure

1 litre = 0.87988 Imperial quart

1 litre = 1.05668 U.S. quarts

1 Imperial quart = 1.13649 litres

1 U.S. quart = 0.94633 litre

EQUIVALENT VALUES OF U.S. UNITS

Dry Measure

1 U.S. bushel = 0.969 Imperial bushel

1 Imperial bushel = 1.032 U.S. bushels

Liquid Measure

1 U.S. quart = 0.83201 Imperial quart

1 Imperial quart = 1.20190 U.S. quarts

Apothecaries' Measure

20 fluid ounces = 1 Imperial pint

16 fluid ounces = 1 U.S. pint

EQUIVALENT VALUES OF U.K. UNITS

Weight

1 stone = 14 pounds

1 score = 20 pounds

1 long hundredweight = 112 pounds

1 long hundredweight = 1.12 short hundredweight

1 long ton = 2,240 pounds

1 long ton = 1.12 short tons

1 short hundredweight = 0.8929 long hundredweight

1 short ton = 0.8929 long ton

Dry Measure

1 quarter = 8 bushels

Quantity

1 great hundred = 10 dozen

EQUIVALENTS FOR PRINCIPAL COMMODITIES

Bushel weights are those used in Canada unless otherwise indicated.

Wheat

- 1 bushel (Canada) = 60 pounds
- 1 bushel (U.K.) = 60 pounds
- 1 bushel (U.S.) = 60 pounds
- 1 long hundredweight = 1.8667 bushels
- 1 long ton = 37.33 bushels
- 1 short ton = 33.33 bushels
- 1 bushel = 0.5357 long hundredweight
- 1 metric ton (10 quintals) = 36.74 bushels
- 1 bushel = 0.02721 metric ton
- 1 quintal per hectare = 1.49 bushels per acre
- 1 bushel per acre = 0.67 quintal per hectare

Oats

- 1 bushel (Canada) = 34 pounds
- 1 bushel (U.K.) = 39 pounds
- 1 bushel (U.S.) = 32 pounds
- 1 long hundredweight = 3.2941 bushels
- 1 long ton = 65.88 bushels
- 1 short ton = 58.82 bushels
- 1 bushel = 0.3036 long hundredweight
- 1 metric ton (10 quintals) = 64.84 bushels
- 1 bushel = 0.01542 metric ton
- 1 quintal per hectare = 2.62 bushels per acre
- 1 bushel per acre = 0.38 quintal per hectare

Barley

- 1 bushel (Canada) = 48 pounds
- 1 bushel (U.K.) = 50 pounds
- 1 bushel (U.S.) = 48 pounds
- 1 long hundredweight = 2.3333 bushels
- 1 long ton = 44.80 bushels
- 1 short ton = 40.00 bushels
- 1 bushel = 0.4286 long hundredweight
- 1 metric ton (10 quintals) = 45.930 bushels
- 1 bushel = 0.02177 metric ton
- 1 quintal per hectare = 1.86 bushels per acre
- 1 bushel per acre = 0.54 quintal per hectare

Rye

- 1 bushel (Canada) = 56 pounds
- 1 bushel (U.S.) = 56 pounds
- 1 long hundredweight = 2 bushels
- 1 long ton = 40.00 bushels
- 1 short ton = 35.71 bushels
- 1 bushel = 0.5 long hundredweight
- 1 metric ton (10 quintals) = 39.368 bushels
- 1 bushel = 0.02540 metric ton
- 1 quintal per hectare = 1.59 bushels per acre
- 1 bushel per acre = 0.63 quintal per hectare

Corn

- 1 bushel (Canada) = 56 pounds
- 1 bushel (U.S.) = 56 pounds
- 1 long hundredweight = 2 bushels
- 1 bushel = 0.5 long hundredweight
- 1 metric ton (10 quintals) = 39.368 bushels
- 1 bushel = 0.02540 metric ton
- 1 quintal per hectare = 1.59 bushels per acre
- 1 bushel per acre = 0.63 quintal per hectare

Flaxseed

- 1 bushel (Canada) = 56 pounds
- 1 bushel (U.S.) = 56 pounds
- 1 long hundredweight = 2 bushels
- 1 bushel = 0.5 long hundredweight
- 1 metric ton (10 quintals) = 39.368 bushels
- 1 bushel = 0.02540 metric ton
- 1 quintal per hectare = 1.59 bushels per acre
- 1 bushel per acre = 0.63 quintal per hectare

Soybeans

- 1 bushel (Canada) = 60 pounds
- 1 bushel (U.S.) = 60 pounds
- 1 long hundredweight = 1.8667 bushels
- 1 bushel = 0.5357 long hundredweight
- 1 metric ton (10 quintals) = 36.74 bushels
- 1 bushel = 0.02721 metric ton
- 1 quintal per hectare = 1.49 bushels per acre
- 1 bushel per acre = 0.67 quintal per hectare

Milk

1 U.S. quart = 2.15 pounds

100 pounds = 46.51 U.S. quarts

1 litre = 2.27 pounds

100 pounds = 44.05 litres

Potatoes

1 bushel (Canada) = 60 pounds

1 bushel (U.S.) = 60 pounds

1 long hundredweight = 1.8667 bushels

1 bushel = 0.5357 long hundredweight

1 metric ton (10 quintals) = 36.74 bushels

1 bushel = 0.027216 metric ton

1 quintal per hectare = 1.49 bushels per acre

1 bushel per acre = 0.67 quintal per hectare

Sugar Beets

1 metric ton per hectare = 0.4461 short ton per acre

1 short ton per acre = 2.241 metric tons per acre

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